AMENDMENTS TO THE SPECIFICATION:

Please amend the paragraph on page 7, lines 8-17 as follows:

The method of detecting feature points corresponding to the wavelength of light sources in the signal processing unit and extracting image coordinates can be implemented through thresholding technology and grouping & labeling technology (4-connectivity) (Digital Image Processing; Rafael C. Gonzales, Richard E. ~~Wodds~~ Woods, Addison Wesley). This method is performed by binarizing the image signal filtered using the wavelength of the light sources, extracting a portion, on which pixels having a value equal to or greater than a certain value (for example, 50) are connected to each other and which has a gray level of 255, as the region of a light source, detecting the light source by removing noise components from the extracted region and extracting image coordinates based on the center of gravity.